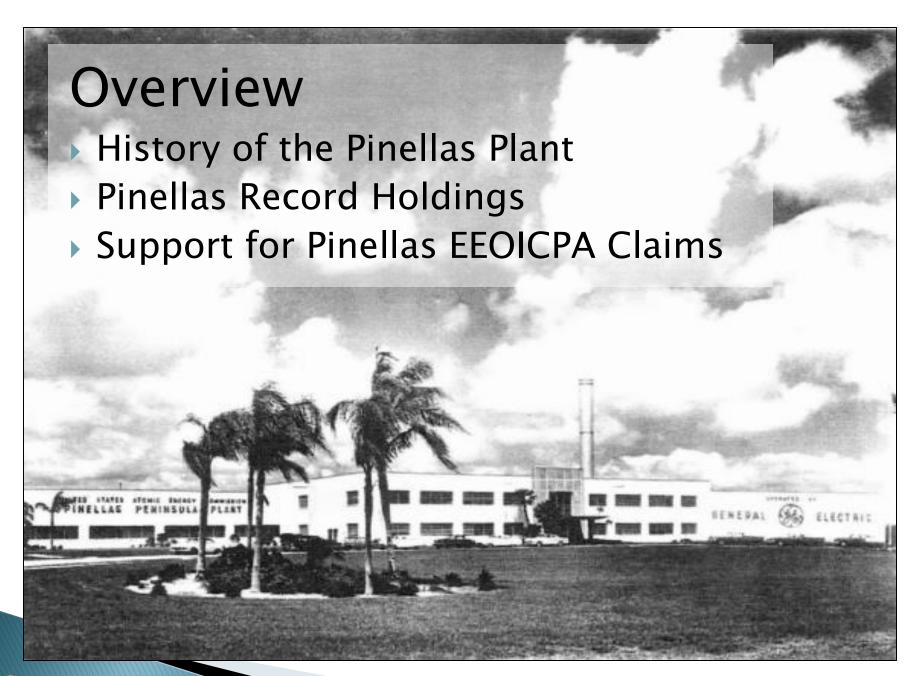
Pinellas Plant History & Information Used to Process EEOICPA Claim Requests



Jeanie Gueretta, CRM
Archives and Information Management Team





Background

- In 1942, the U.S. began developing technology to produce nuclear weapons under the U.S. Army Corps of Engineers' Manhattan Engineer District
 - Known as the Manhattan Project
 - Facilities established to develop nuclear weapons
 - In 1945, the first atomic bombs were used to end World War II
 - "Little Boy" dropped on Hiroshima, Japan
 - "Fat Man" dropped on Nagasaki, Japan





Background (cont'd)

- After World War II ended, there was still a threat of nuclear weapons in enemy hands
 - The Soviet Union had begun developing its own atomic bomb
 - As tensions grew between the U.S. and the Soviet Union a new "war" began known as the Cold War
- In 1946, nuclear weapons development and production was transferred to a newly created civilian organization called the Atomic Energy Commission (AEC)
- AEC developed and managed a network of research, manufacturing, and testing sites
 - Focus was on building a nuclear weapons stockpile



Nuclear Weapons Complex Nuclear Weapons Production Processes

Step	Process	Major Sites
1	Uranium Mining, Milling, and Refining	Uranium milling and processing sites, commercially-owned mines and mills, government-owned mills, foreign suppliers, Fernald, Middlesex, Weldon Spring, Oak Ridge, Paducah, Portsmouth
2	Isotope Separation	Oak Ridge, Paducah, Portsmouth, Savannah River
3	Fuel and Target Fabrication	Savannah River, Fernald, Ashtabula, Hanford, Oak Ridge
4	Reactor Operations	Hanford, Savannah River



Nuclear Weapons Complex Nuclear Weapons Production Processes (cont'd)

Step	Process	Major Sites
5	Chemical Separations	Hanford, Savannah River, Idaho
6	Weapons Component Fabrication	Pinellas, Rocky Flats, Hanford, Los Alamos, Oak Ridge, Mound, Savannah River
7	Weapons Operations	Pantex, Oak Ridge, Mound, Kansas City, Sandia
8	Research, Development, and Testing	National Laboratories: Los Alamos, Lawrence Livermore, Sandia (New Mexico and California) Test Sites: Nevada Test Site, Bikini and Enewetak Atolls; Christmas and Johnston Islands, Tonopah Test Range, Salton Sea Test Base

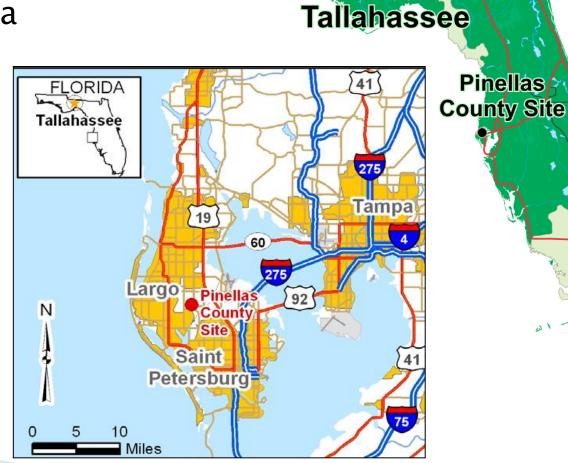
Establishing the Pinellas Plant

- With Cold War tensions rising, the U.S. had an urgent need for a facility to fabricate weapons components
- Site Selection Criteria
 - Good labor supply
 - Best possible climate for uninterrupted and rapid construction of the facility



Pinellas Plant Location

The site selected for the new Plant was in Pinellas County at Largo, Florida





Pinellas/

Pinellas Plant Site

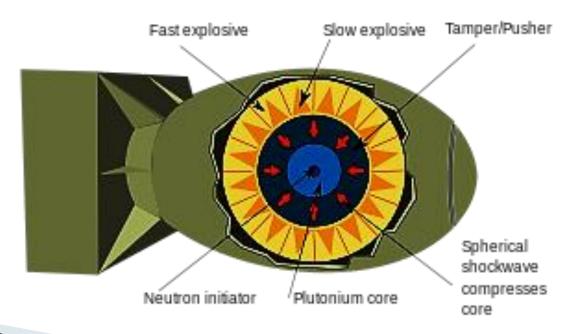
- In 1956, the Pinellas
 Plant was built on
 approximately 100
 acres of land in a
 sparsely populated area
 of Largo, Florida
- The land was previously used as a dairy farm





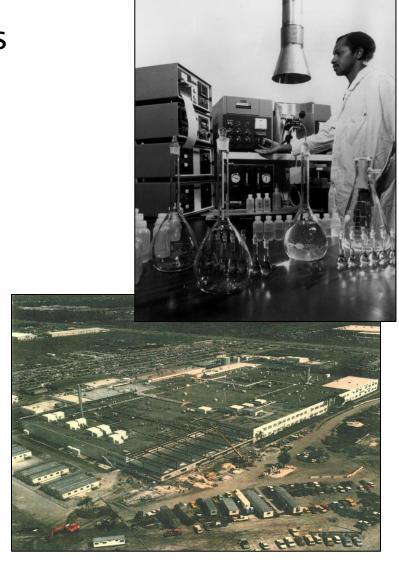
Pinellas Plant Mission

- The primary mission of Pinellas Plant was to produce precisely timed neutron generators
- The purpose of this internal component was to start the chain reaction in the nuclear weapon serving as a "trigger" for detonation



Pinellas Plant Mission (cont'd)

- Specialized electronic and mechanical nuclear weapons components
 - Neutron detectors
 - Radioisotopic thermoelectric generators
 - Lightning arrester connectors
 - Thermopiles
 - Specialty capacitors and switches
 - Sophisticated product testers
- Test laboratories were used to evaluate gases, metals, ceramics, and other materials

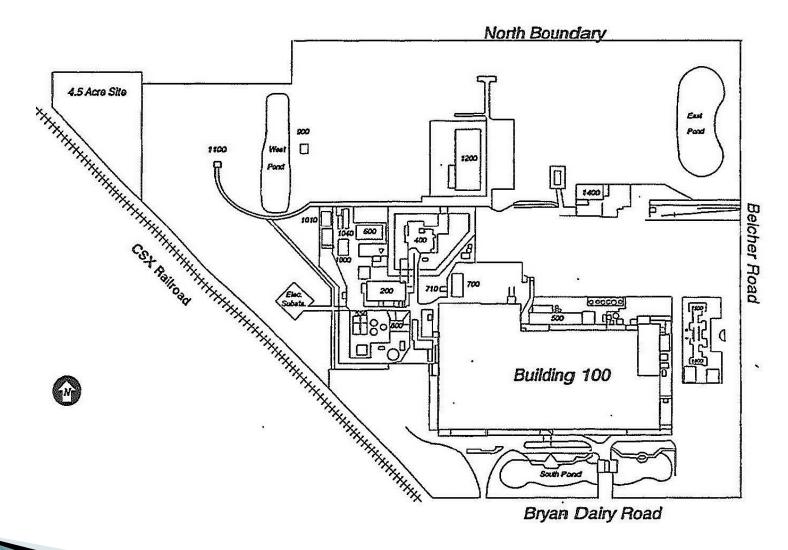


Pinellas Plant Mission (cont'd)

- Non-weapons related products and technology
 - Battery-life technology
 - Research of environmentally safe solvents to replace hazardous solvents for cleaning and coating applications
 - Ultra-clean, high-vacuum technologies
 - Test equipment
 - Specialized electronic components such as lightning arresters, capacitors, vacuum switches, crystal resonators,
 - and shock transducers
 - Sophisticated, computer-aided engineering



Pinellas Plant Site Layout



Pinellas Plant Building Summary

Building	Function
Building 100 – 1st floor	Offices/Production/Laboratory
Building 100 – 2 nd floor	Offices/Utilities
Building 100 - Mezzanines	Offices
Building 200	Environmental Testing
Building 400	Small Business
Building 500	Utilities/Deionized Water Facility
Building 550	Industrial Wastewater Neutralization Facility
Building 600	Chemical Storage
Building 700	Vehicle/Fire Maintenance
Building 710	Maintenance Shed



Pinellas Plant Building Summary (cont'd)

Building	Function
Building 800	Linear Accelerator
Building 900	Fire Training
Building 1010	New Container Storage
Building 1000/1040	Waste Storage/Management
Building 1100	Special Storage
Building 1200	Security (County Use)
Building 1400	Remote Receiving
Building 1500/1600	Partnership School/Child Development Center
Hydrogen Storage Tank Facility	Bulk Gas Storage



Pinellas Site Closure

- End of Cold War brought an end to the weapons mission
- 1994 Nuclear weapons component production at the Pinellas plant ended
- ▶ 1995 Department of Energy sold the facility to the Pinellas County Industrial Council



New Mission: Environmental Cleanup

- ▶ 1985 1997
 - Removal of soil and buried drums containing plant waste
 - Groundwater treatment





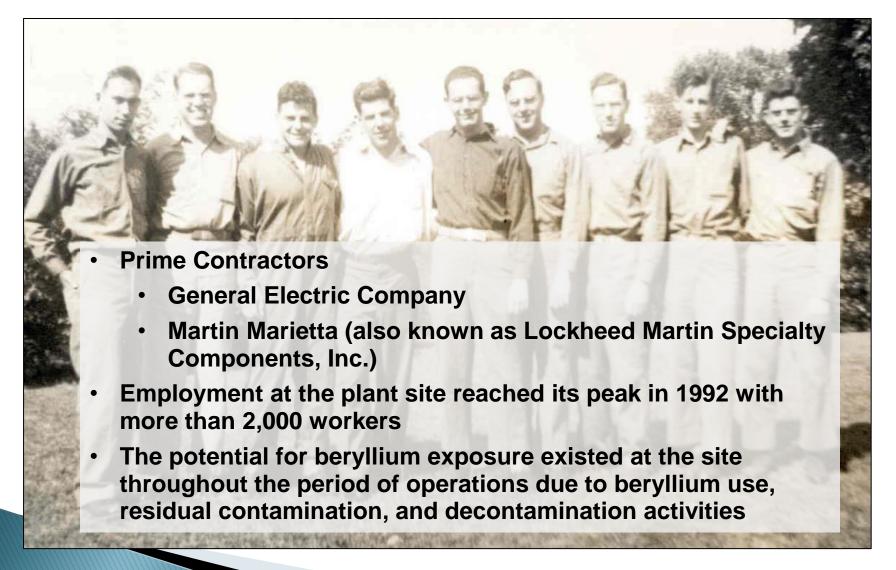


Pinellas Site Today

- In 2001, the industrial complex became the Young-Rainey STAR Center
- Today the site houses more than 30 tenants
 - Includes a variety of manufacturing operations
 - About 1,600 employees
- The nation's 1st successful conversion from a former DOE defense manufacturing facility to a commercial, high-technology center



The Pinellas Plant and Its Contractors





- **EEOICPA** Coverage
 - Operations & Remediation: 1957–1997, 1999, 2008–2009
- Contractors
 - General Electric Company: 1957–1992
 - Lockheed Martin Specialty Components, Inc.: 1992–1997
 - MACTEC Environmental Restoration Services: 1999
 - S. M. Stoller Corporation: 2008–2009

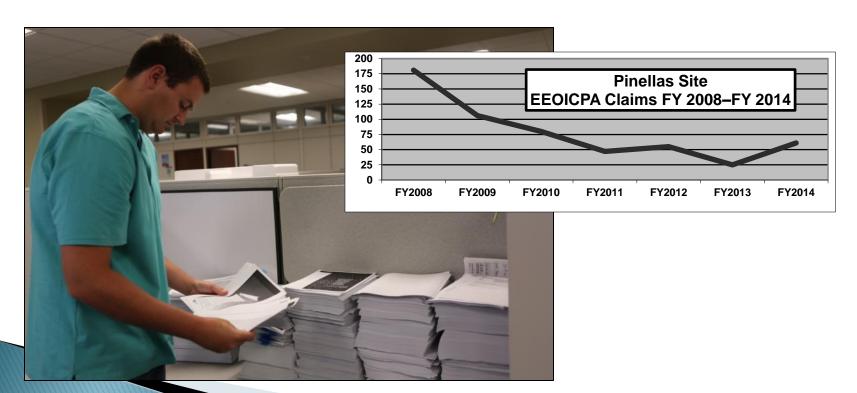
Pinellas Records

- The DOE Office of Legacy Management (LM) manages hard copy and electronic records for Pinellas
 - About 1,000 cubic feet of records at the LM Business Center in Morgantown, West Virginia, and at the LM Grand Junction, Colorado, office
 - 154 cubic feet of permanent records at the Atlanta Federal Records Center
 - About 29,000 electronic records
- Collections include operational and site cleanup records, environmental monitoring records, and personnel information



Requests for Information

- LM has recorded more than 650 Pinellas records requests
- The majority of Pinellas records requests are to support EEOICPA claims



EEOICPA Claims Processing

Receive EEOICPA records request via SERT in the LM
EEOICPA
tracking
database

Identify responsive records

Retrieve and scan records

Upload electronic files into SERT

Information Sent for EEOICPA on Parts B and E

- Part B (DOL Employment Verification)
 - Employment dates if available
 - Medical, radiological, industrial hygiene, and personnel records, as needed
- Part B (NIOSH)
 - Radiological dose, x-ray results, industrial hygiene, and medical records
- Part E Document Acquisition Requests
 - Records per DOL requests (e.g., personnel, industrial hygiene, medical, radiological dose, and job descriptions)



Pinellas Records Searches

- Pinellas records are searchable through LM's electronic recordkeeping system
- Pinellas records include:
 - Personnel Records
 - Medical Records
 - Radiological Information
 - Industrial Hygiene Records
 - Limited Job Descriptions
- Records are in electronic and paper form



Record Process Improvements

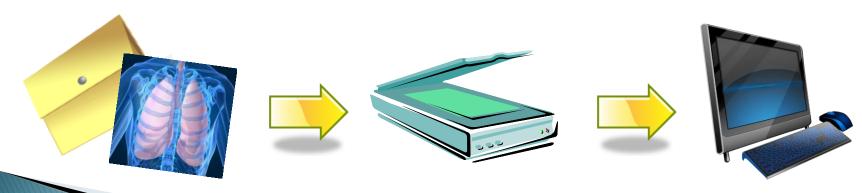
- Finding aids housed in the LM electronic recordkeeping system provide a single, consolidated search tool for locating responsive documents
- More comprehensive indexing of Pinellas records to improve records retrieval
- Developed a centralized tracking system to manage the processing of EEOICPA claims



Process Improvement

Process Improvements (cont'd)

- LM successfully completed a major project to digitize nearly 400,000 deteriorating medical X-rays, including x-rays for former Pinellas workers
- The x-rays were in various stages of "vinegar syndrome" deterioration, a chemical process that destroys media
- Digital images and metadata were uploaded to the electronic recordkeeping system to enhance records retrieval



Deteriorated Film



Electronic Image

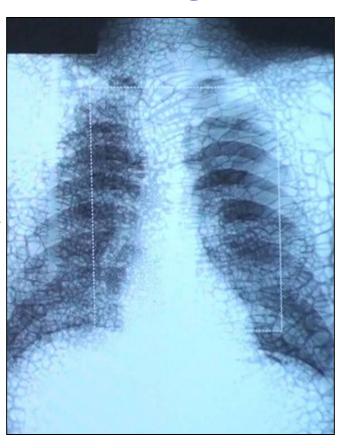


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EEOICPA Contacts Pinellas Plant

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